

National Functional Guidelines Report #03

Lab DATA(ALS Environmental) SDG MF9K15 Case 45299 Contract EPW09036 Region 6 DDTID 216899 SOW ISM01.3

Data Review Reports

Blanks

Blanks	Hg
ND15	The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K26, MF9K26D, MF9K26S, MF9K27, MF9K28, MF9K29
	Mercury MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K26 , MF9K26D , MF9K26S , MF9K27 , MF9K28 , MF9K29
Blanks	Hg
ND16	The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K26, MF9K26D, MF9K26S, MF9K27, MF9K28, MF9K29
	Mercury MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K26 , MF9K26D , MF9K26S , MF9K27 , MF9K28 , MF9K29

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Data Review Reports

Blanks

Blanks	ICP_AES
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs. PBS, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K26, MF9K26D, MF9K26L, MF9K27, MF9K28, MF9K29
	Sodium PBS , MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K26 , MF9K26D , MF9K26L , MF9K27 , MF9K28 , MF9K29
Blanks	ICP_AES
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes. LCS
	Sodium LCS
Blanks	ICP_AES
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs. MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K26, MF9K26D, MF9K27, MF9K28, MF9K29
	Sodium MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K26 , MF9K26D , MF9K27 , MF9K28 , MF9K29
Blanks	ICP_AES
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes. LCS, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K26, MF9K26D, MF9K27, MF9K28, MF9K29
	Sodium LCS
	Calcium LCS , MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K26 , MF9K26D , MF9K27 , MF9K28 , MF9K29

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Data Review Reports

Blanks

Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Antimony PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Thallium PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Silver PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
Blanks	ICP_MS
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF9K26L, PBS, MF9K26, MF9K26D, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Vanadium MF9K26
	Cobalt PBS
	Barium PBS
	Nickel PBS
	Beryllium PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Antimony PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Thallium PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Cadmium PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Copper PBS
	Silver PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Lead PBS
Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS, MF9K26S, MF9K26A
	Antimony LCS, MF9K26S, MF9K26A
	Thallium LCS, MF9K26S
	Silver LCS, MF9K26S
Blanks	ICP_MS

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Blanks

Blanks	ICP_MS
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS, MF9K26, MF9K26S, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29, MF9K26A
	Chromium LCS, MF9K26, MF9K26S, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Cobalt LCS, MF9K26, MF9K26S, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Barium LCS, MF9K26, MF9K26S, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Nickel LCS, MF9K26, MF9K26S, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Beryllium LCS, MF9K26S
	Antimony LCS, MF9K26S, MF9K26A
	Thallium LCS, MF9K26S
	Cadmium LCS, MF9K26S
	Silver LCS, MF9K26S
	Lead LCS, MF9K26, MF9K26S, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
Blanks	ICP_MS
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF9K26, MF9K26D, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Beryllium MF9K26, MF9K26D, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Antimony MF9K26, MF9K26D, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Thallium MF9K26, MF9K26D, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Cadmium MF9K26, MF9K26D, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Silver MF9K26, MF9K26D, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
Blanks	ICP_MS
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS, MF9K26, MF9K26S, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29, MF9K26A
	Cobalt LCS, MF9K26, MF9K26S, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Barium LCS, MF9K26, MF9K26S, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29

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Blanks

Blanks	ICP_MS
	Zinc LCS , MF9K26 , MF9K26S , MF9K26D , MF9K26L , MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K27 , MF9K28 , MF9K29
	Nickel LCS , MF9K26 , MF9K26S , MF9K26D , MF9K26L , MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K27 , MF9K28 , MF9K29
	Beryllium LCS , MF9K26S
	Antimony LCS , MF9K26S , MF9K26A
	Thallium LCS , MF9K26S
	Cadmium LCS , MF9K26S
	Copper LCS , MF9K26 , MF9K26S , MF9K26D , MF9K26L , MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K27 , MF9K28 , MF9K29
	Silver LCS , MF9K26S
	Lead LCS , MF9K26 , MF9K26S , MF9K26D , MF9K26L , MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K27 , MF9K28 , MF9K29

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Data Review Reports

Detection Limit

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K26, MF9K26D, MF9K27, MF9K29
	Mercury MF9K15 , MF9K16 , MF9K17 , MF9K19 , MF9K20 , MF9K21 , MF9K22 , MF9K23 , MF9K25 , MF9K26 , MF9K26D , MF9K27 , MF9K29

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Data Review Reports

Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	PBS, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K26, MF9K26D, MF9K26L, MF9K27, MF9K28, MF9K29
	Sodium PBS, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K26, MF9K26D, MF9K26L, MF9K27, MF9K28, MF9K29
	Calcium PBS, MF9K26L
	Potassium MF9K21, MF9K26L
	Magnesium MF9K21, MF9K22, MF9K23, MF9K26, MF9K26D, MF9K26L, MF9K28, MF9K29

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Data Review Reports

Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF9K26L, MF9K15, PBS, MF9K26, MF9K26D, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Vanadium MF9K26L
	Selenium MF9K15
	Arsenic MF9K26L
	Cobalt PBS
	Barium PBS
	Zinc PBS
	Nickel PBS
	Beryllium PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Antimony PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Thallium PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Cadmium PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Copper PBS
	Silver PBS, MF9K26, MF9K26D, MF9K26L, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Lead PBS

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Data Review Reports

Duplicates

Duplicates	ICP_AES
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K26, MF9K27, MF9K28, MF9K29
	Aluminum MF9K26D

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Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_MS
NG08	The following Matrix Spike samples have percent recoveries less than 30% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF9K26, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Antimony MF9K26S

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Data Review Reports

Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF9K26, MF9K15, MF9K16, MF9K17, MF9K19, MF9K20, MF9K21, MF9K22, MF9K23, MF9K25, MF9K27, MF9K28, MF9K29
	Zinc MF9K26L